

Recombinant Rat Ppbp protein

Cat. No. Ppbp-630R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Ppbp protein was expressed in Escherichia coli.
Species	Rat
Source	E.coli
ProteinLength	46-107 a.a.
Description	CXCL7 is a small cytokine which is also an isoform of Beta-Thromboglobulin or Pro-Platelet basic protein belonging to the CXC chemokine family and it is released in large amounts from platelets following their activation. CXCL7 stimulates DNA synthesis, mitosis, glycolysis, intracellular cAMP accumulation, prostaglandin E2 secretion, and synthesis of hyaluronic acid and sulfated glycosaminoglycan. It also stimulates the formation and secretion of plasminogen activator by human synovial cells. Recombinant Rat CXCL7 contains 62 amino acids which is a single non-glycosylated polypeptide chain. In addition, The rat CXCL7 shares 58 % and 77 % a.a. sequence identity with human and mouse CXCL7.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The biologically active determined by a chemotaxis bioassay using human CXCR2 transfected murine BaF3 cells is in a concentration range of 0.1-1.0 ng/ml.
Molecular Mass	Approximately 6.8 kDa, a single non-glycosylated polypeptide chain containing 62

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	amino acids.
AA Sequence	IELRCRCTNTLSGIPLNSISRVNVFRPGAHCNDNEVIATLKNGKEVCLDPTAPMIKKIV KKI
Endotoxin	Less than 1 EU/g of rRtNAP-2/CXCL7 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Ppbp
Official Symbol	Ppbp
Synonyms	PPBP; pro-platelet basic protein (chemokine (C-X-C motif) ligand 7); platelet basic protein; neutrophil activating peptide-2; chemokine (C-X-C motif) ligand 7; Cxcl7; Nap-2;
Gene ID	246358

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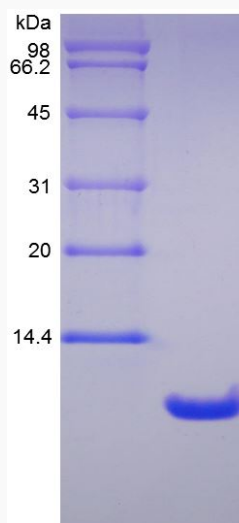
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mRNA Refseq NM_153721

Protein Refseq NP_714943

UniProt ID Q99ME0

SDS-PAGE of Ppbp-
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